

A' 3. A system according to claim 1, characterized in that the system is further provided with an afterburner or boiler burner included in the combustion path between the first and the second heat exchanger.

4. A system according to claim 19, characterized in that the fuel cell, waste gas burner, second heat exchanger, afterburner and first heat exchanger are series connected.

5. A system according to claim 3, characterized in that the afterburner is further provided with a separate inlet for supplying a gas, such as natural gas.

6. A system according to claim 2, characterized in that the waste gas burner is further provided with at least one first inlet included in the combustion path and a second inlet for supplying air.

2
A 8. A system according to claim 1, characterized in that the fuel cell is provided with a first inlet connected with the fuel processor for supplying hydrogen to the fuel cell, a second inlet for supplying air to the fuel cell, a first outlet for discharging waste gas from an anode of the fuel cell and a

second outlet for discharging waste gas air from a cathode of the fuel cell.

9. A system according to claim 20, characterized in that the first outlet of the fuel cell is connected with the first inlet of the waste gas burner included in the combustion path.

12. A system according to claim 8, characterized in that the system is further provided with a controllable first bypass connection for bridging the first inlet and the first outlet of the fuel cell when starting up the system.

14. A system according to claim 1, characterized in that the system is further provided with a central heating circuit and a third heat exchanger for exchanging heat between the first heating circuit and the central heating circuit.

16. A system according to claim 14, characterized in that the first heating circuit is designed as a reversible heating circuit in which a heat transport medium can be selectively pumped round in two directions.

17. A system according to claim 14, characterized in that the system is further provided with a heat destroyer in the form of, for instance, a fin included in the first heating circuit between the fuel cell and the third heat exchanger for adjustably discharging heat from the first heating circuit when the fuel cell, in use, cannot be cooled sufficiently after starting up.

18. A system according to claim 1, characterized in that the fuel processor is provided with humidifying means for humidifying the hydrocarbons supplied to the fuel processor, which humidifier is included in the second heat exchanger for supplying heat to the humidifying means.

Please add the following new claims 19-24:

19. A system according to claim 2, characterized in that the system is further provided with an afterburner or boiler burner included in the combustion path between the first and the second heat exchanger.

20. A system according to claim 7, characterized in that the fuel cell is provided with a first inlet connected with the fuel

processor for supplying hydrogen to the fuel cell, a second inlet for supplying air to the fuel cell, a first outlet for discharging waste gas from an anode of the fuel cell and a second outlet for discharging waste gas air from a cathode of the fuel cell.

21. A system according to claim 4, characterized in that:

the afterburner is further provided with a separate inlet for supplying a gas, such as natural gas;

the waste gas burner is further provided with at least one first inlet included in the combustion path and a second inlet for supplying air;

the system is arranged such that waste gas air originating from the fuel cell or air from elsewhere can be supplied to the waste gas burner.

22. A system according to claim 21, characterized in that:

the fuel cell is provided with a first inlet connected with the fuel processor for supplying hydrogen to the fuel cell, a second inlet for supplying air to the fuel cell, a first outlet for discharging waste gas from an anode of the fuel cell and a second outlet for discharging waste gas air from a cathode of the fuel cell;

the first outlet of the fuel cell is connected with the first inlet of the waste gas burner included in the combustion path;

the second outlet of the fuel cell is connected with the afterburner for supplying waste gas air from the fuel cell to the afterburner;

via a control valve the second outlet is also connected with the second outlet of the waste gas burner to supply waste gas air to the waste gas burner;

the system is further provided with a controllable first bypass connection for bridging the first inlet and the first outlet of the fuel cell when starting up the system;

the system is further provided with a second bypass connection for bridging the second inlet and the second outlet of the fuel cell when starting up the system.

23. A system according to claim 22, characterized in that:

the system is further provided with a central heating circuit and a third heat exchanger for exchanging heat between the first heating circuit and the central heating circuit;

the central heating circuit is provided with a heat exchanger included in the combustion path downstream of the first heat exchanger;

the first heating circuit is designed as a reversible heating circuit in which a heat transport medium can be selectively pumped round in two directions;

the system is further provided with a heat destroyer in the form of, for instance, a fin included in the first heating circuit between the fuel cell and the third heat exchanger for adjustably discharging heat from the first heating circuit when the fuel cell, in use, cannot be cooled sufficiently after starting up.

24. A system according to claim 23, characterized in that the fuel processor is provided with humidifying means for humidifying the hydrocarbons supplied to the fuel processor, which humidifier is included in the second heat exchanger for supplying heat to the humidifying means.
